

Littératie en Santé

Recherches, Pratiques et Systèmes

1<sup>ères</sup> Journées Francophones



13 & 14  
décembre  
2018

Lyon - France

15h35

Facteurs associés à la concordance entre la Littératie en Santé des patients, évaluée par le HLS-EU16 ou estimée par le médecin généraliste  
**L. Rigal**

**RéFLiS**  
Réseau Francophone de Littératie en Santé

Institut de Recherche  
en Santé Publique  
GIS-IReSP

**Mésestimation du niveau de littératie en santé  
des patients par leur généraliste :  
des disparités sociales en défaveur du bas de l'échelle sociale**

**Misperception of patients' health literacy by their general practitioners:  
social disparities to the disadvantage of  
the bottom of the social hierarchy**

Casta<sup>1</sup>, Ringa<sup>2</sup>, Labitrie<sup>3</sup>, Nadot<sup>2</sup>, Panjo<sup>2</sup>, Rigal<sup>2,3</sup>

<sup>1</sup>Univ Nice Sophia Antipolis

<sup>2</sup>Université Paris-Saclay, Univ. Paris-Sud, UVSQ, CESP, Inserm 1018, Villejuif

<sup>3</sup>Université Paris-Saclay, Univ. Paris-Sud, Département de médecine générale, Le Kremlin-Bicêtre

## CONTEXT & OBJECTIVE

(Re)production of social inequalities in health

Role of provider behavior

Communication socially differentiated

Difficult for physician to accurately estimate patient health literacy (HL)

Misperception

- over-estimation: failure
- under-estimation : missed opportunity

### Objective

Investigate physician misperception of patient HL according to patient social status

## METHODS (1)

Data (HLS-EU Validation in French – Presentation by A. Rouquette)

15 GP from diverse social backgrounds - Université Paris-Sud General practice network

One full day of encounters at each physician's office

*Patient* : Last profession, Education level, Perceived financial situation

*Physician* : Mirror questions #1, 6, 10 and 16; medical follow-up, chronic disease

**How easy would you say it is [for your patient] to:**

... find information on treatments of illnesses that concern you [him/her]?

... use information the doctor [you] gives you [him/her] to make decisions about your [his/her] illness?

... understand why you [he/she] need[s] health screenings?

... judge which everyday behaviour is related to your [his/her] health?

Validity and measurement invariance across sex, age, and education level of the French short versions of the European Health Literacy Survey Questionnaire. Rouquette A, Nadot T, Labitrie P, Van den Broucke S, Mancini J, Rigal L, Ringa V. PLoS One. 2018 Dec 6;13(12):e0208091.

## METHODS (2)

### Analyses

Misperception: Disagreement between patient and physician dichotomized answers

Global disagreement score: percentage of disagreement for all four questions

Mixed logistic models

Adjusted for sex, age (divided into [18-30[, [30-40[, [40-50[, [50-60[, [60-70[, [70-80[, ≥80 years), number of consultations during the past year (]0-2], ]2-5], >5), length of doctor-patient relationship (]0-1], ]1-5], >5 years) and chronic disease

### RESULTS (1)

321 eligible patients

Participation rate 93.5%

GP return rate 93,7%

292 (88.2%) patients in the analyses

Male: 64.7%

Age: 54.9 (18.4)

Length of doctor-patient relationship:  
median 7 y, IQR [2-12]

Number of consultations in the past year:  
median 4 y, IQR [2-7]

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	n (%)
<b>Length of doctor-patient relationship (years)</b>	66 (22.6)
]0-1]	62 (21.2)
]1-5]	164 (56.2)
> 5	
<b>Number of consultations in the past year</b>	84 (28.9)
]0-2]	110 (37.8)
]2-5]	97 (33.3)
> 5	
<b>Occupation</b>	
Blue-collar workers	16 (6.1)
Office, sales, and service workers	63 (23.9)
Intermediate professions	64 (24.3)
Managers and superior intellectual professions	121 (45.8)
<b>Educational level</b>	
Did not pass school-leaving exam	68 (23.6)
Passed school-leaving exam	53 (18.4)
University diploma	167 (58.0)
<b>Perceived financial situation</b>	
"I'm not managing"	15 (5.2)
"It's tight, I must be careful"	71 (24.6)
"It's OK"	175 (60.6)
"I'm quite comfortable"	28 (9.7)

## RESULTS (2)

	PHYSICIAN, n (%)											
	Find information			Make decision			Screening			Health behaviour		
	Diff	Easy	Total	Diff	Easy	Total	Diff	Easy	Total	Diff	Easy	Total
<b>PATIENT</b>												
<b>Difficult</b>	28 (9.6)	20 (6.9)	48 (16.4)	13 (4.5)	17 (5.8)	30 (10.3)	5 (1.7)	9 (3.7)	14 (4.8)	19 (6.5)	37 (12.7)	56 (19.2)
<b>Easy</b>	63 (21.6)	181 (62.0)	244 (83.6)	53 (18.2)	209 (71.6)	270 (89.7)	41 (14.0)	237 (81.2)	278 (95.2)	43 (14.7)	193 (66.1)	236 (80.8)
<b>Total</b>	91 (31.2)	201 (68.8)	292 (100)	66 (22.6)	226 (77.4)	292 (100)	46 (15.6)	246 (84.3)	292 (100)	62 (21.2)	230 (78.8)	292 (100)
<b>Misperception / Desagreement</b>	83 (28.4)			70 (24.0)			50 (17.1)			80 (27.4)		

Global disagreement score: 24.8%

Inter-physician variance 0.061 (p= 0.029): score ranged from 18.7% among the 10<sup>th</sup> percentile of physicians to 30.2% in the 90 .

## RESULTS (3) – Misperception - disagreement

Same kind of results for each socioeconomic indicator

	P	Educational level (n=288)				Educational level (n=279)		
		University diploma	Passed school-leaving exam	Did not pass school-leaving exam		University diploma (ref)	Passed school-leaving exam	Did not pass school-leaving exam
<b>Find information</b>	0.007	21.0	37.8	39.7	<b>Find information</b>	1 0.02	2.42 (1.10-5.31)	2.44 (1.20-4.96)
<b>Make decision</b>	0.002	16.2	30.2	36.8	<b>Make decision</b>	1 0.003	2.90 (1.28-6.61)	3.14 (1.53-6.43)
<b>Screening</b>	0.0006	9.6	20.8	30.9	<b>Screening</b>	1 0.002	2.54 (0.98-6.63)	4.58 (1.97-10.65)
<b>Health Behaviour</b>	0.06	22.2	66.0	66.2	<b>Health Behaviour</b>	1 0.11/0.046	1.86 (0.84-4.14)	2.02 (0.97-4.19)
					<b>Score global</b>	1 <0.0001	2.52 (1.47-4.33)	3.04 (1.87-4.92)



## RESULTS (2bis)

	PHYSICIAN, n (%)											
	Find information			Make decision			Screening			Health behaviour		
	Diff	Easy	Total	Diff	Easy	Total	Diff	Easy	Total	Diff	Easy	Total
<b>PATIENT</b>	28	20	48	13	17	30	5	9	14	19	37	56
<b>Difficult</b>	(9.6)	(6.9)	(16.4)	(4.5)	(5.8)	(10.3)	(1.7)	(3.7)	(4.8)	(6.5)	(12.7)	(19.2)
<b>Easy</b>	63	181	244	53	209	270	41	237	278	43	193	236
	(21.6)	(62.0)	(83.6)	(18.2)	(71.6)	(89.7)	(14.0)	(81.2)	(95.2)	(14.7)	(66.1)	(80.8)
<b>Total</b>	91	201	292	66	226	292	46	246	292	62	230	292
	(31.2)	(68.8)	(100)	(22.6)	(77.4)	(100)	(15.6)	(84.3)	(100)	(21.2)	(78.8)	(100)
<b>Misperception / Desagreement</b>	83			70			50			80		
	(28.4)			(24.0)			(17.1)			(27.4)		

### RESULTS (4)

		Educational level (n=288)		
	p	University diploma	Passed school-leaving exam	Did not pass school-leaving exam
<b>Find information</b>				
<i>Patient</i>	0.003	89.2	84.9	70.6
<i>Physician</i>	<0.0001	86.2	54.7	39.7
<i>Disagreement</i>	0.007	21.0	37.8	39.7
<b>Make decision</b>				
<i>Patient</i>	0.04	93.4	86.8	82.4
<i>Physician</i>	<0.0001	88.0	67.9	60.3
<i>Disagreement</i>	0.002	16.2	30.2	36.8
<b>Screening</b>				
<i>Patient</i>	0.33	97.0	94.3	92.7
<i>Physician</i>	<0.0001	92.2	81.1	67.7
<i>Disagreement</i>	0.0006	9.6	20.8	30.9
<b>Health Behaviour</b>				
<i>Patient</i>	0.28	79.6	88.7	77.9
<i>Physician</i>	0.002	86.2	73.6	67.7
<i>Disagreement</i>	0.06	22.2	66.0	66.2

Δ=18.6

Δ=46.5

Same kind of results for each question

## DISCUSSION

Social disparities in physician's misperception disadvantaging patient from the bottom of the social ladder

### Comparison to the literature

Kelly, 2007: overestimation of the literacy levels of their black patients

Physicians tend to ascribe lower levels of intelligence among their minority patients

“Bend over backwards”

Unconscious stereotypes

### Measures

Questions understood in the same way according to people's social position (DIF analyses) : Q1, 6 and 16

Questions understood in the same way between doctors and lay people?

Questions understood in the same way (by doctors) according to the social position of patients?

Statements versus skills

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Thank you for your attention!